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## PATENT ABSTRACTS OF JAPAN

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(30) Priority:	26.02.88 JP 63 42215	(71) Applicant: SHOWA SHELL SEKIY
(43) Date of application publication:	21.12.89	(72) Inventor: SUZUKI GIICHI KAWAMURA ICHIRO MOGAMITANI HIROYU
(84) Designated contracting states:		(74) Representative:

(54) LIQUID CRYSTAL  
SUBSTANCE

(57) Abstract:

NEW MATERIAL: A liquid crystal substance of benzyl phenylether structure shown by formula I [R is 1-20C alkyl or alkoxy; R\* is optically active group and contains asymmetric carbon atom; X is group shown by formula II or formula III; l is 1-3; R' is H or lower alkyl; Y is -COO- or -O-; (A) and (B) are each independently group shown by formula IV-formula VII, etc.; further when (A) is group shown by formula VII, (B) and X are each single bond].

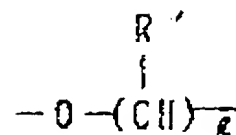
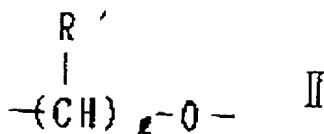
EXAMPLE: [(+)-1,1,1-Trifluoro-2-decyl-4-(4'-octyloxybiphenyl-4"-methyleneoxy) benzoate].

USE: Useful as a component for liquid crystal composition or electric display element having photochemical and chemical stability and large spontaneous polarization,

showing high-speed response and applicable to optical switching, etc.

PREPARATION: For example, a compound shown by formula VIII as a starting raw material is processed through a compound shown by formula IX to give a compound shown by the formula I.

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IV



VI

